

CLAIMS:

1. A thermoplastic high-pressure hose comprising:
an inner core comprising a flexible material and
defining a fluid-carrying conduit; a flexible reinforcing
sheath covering said core; and a jacket covering said
sheath, said hose having a minimum bend radius no greater
than about 38 mm at ambient pressure and a burst pressure
of at least about 8000 psi.
2. A high-pressure hose according to claim 1, said
hose having a burst pressure of at least about 9000 psi.
3. A high-pressure hose according to claim 1, said
hose having a burst pressure of at least about 10,400 psi.
4. A high-pressure hose according to claim 1, said
hose having a burst pressure of at least about 12,000 psi.
5. A high-pressure hose according to claim 1, said
hose having a volumetric expansion of no more than about
4.0 cc/ft. at a pressure of 25% of said burst pressure.
6. A high-pressure hose according to claim 1, said
hose having an elongation of no more than about 3% at a
pressure of 25% of said minimum burst pressure.
7. A high-pressure hose according to claim 1, said
sheath being a braided sheath comprising braided polyester
strands having a braid angle of at least about 1.41.
8. A high-pressure hose according to claim 1,
wherein said hose has a minimum impulse value of at least
about 30,000 cycles.
9. A high-pressure hose according to claim 1,
wherein said core layer comprises a rigid polymer and a

plasticizer present in an amount sufficient to impart flexibility to said rigid polymer.

10. A high-pressure hose according to claim 9, wherein said rigid polymer comprises PVC.

11. A pressure-washing apparatus comprising:
a source of pressurized water; an operator wand; and a hose fluidically connecting said operating wand to said source, said hose comprising an inner core comprising a flexible material and defining a fluid-carrying conduit; a flexible reinforcing sheath covering said core; and a jacket covering said sheath, said hose having a minimum bend radius no greater than about 38 mm at ambient pressure, and a burst pressure of at least about 8000 psi.

12. A pressure-washing apparatus according to claim 11, said hose having a burst pressure of at least about 9000 psi.

13. A pressure-washing apparatus according to claim 11, said hose having a burst pressure of at least about 10,400 psi.

14. A pressure-washing apparatus according to claim 11, said hose having a burst pressure of at least about 12,000 psi.

15. A pressure-washing apparatus according to claim 11, said hose having a volumetric expansion of no more than about 4.0 cc/ft. at a pressure of 25% of said minimum burst pressure.

16. A pressure-washing apparatus according to claim 11, said hose having an elongation of no more than about 3% at a pressure of 25% of said minimum burst pressure.

17. A pressure-washing apparatus according to claim 11, said sheath being a braided sheath comprising braided polyester strands having a braid angle of at least about 1.41.

18. A pressure-washing apparatus according to claim 11, wherein said hose has a minimum impulse value of at least about 30,000 cycles.

19. A pressure-washing apparatus according to claim 11, wherein said core layer comprises a rigid polymer and a plasticizer present in an amount sufficient to impart flexibility to said rigid polymer.

20. A pressure-washing apparatus according to claim 19, wherein said rigid polymer comprises PVC.